

Claims

1. A support device for a spindle (1), which carries a centrifuge rotor (4) of a centrifugal separator and which is provided in a frame member (7) by means of a bearing member (3) to be rotatable about an axis (x) of rotation, wherein the support device (6) comprises at least three support members (8), which are arranged to absorb relative movements between the centrifuge rotor (4) and the frame member (7) and which each is provided between the bearing member (3) and the frame member (7) and has a longitudinal axis (s) extending outwardly with respect to the axis (x) of rotation, wherein each support member (8) comprises a helical spring element (10), having a wire extending in an essentially helical path in such a manner that a space (11) is formed between adjacent rounds of the wire, characterized in that each support member (8) comprises a rubber material (12) provided at least in said space (11) and arranged to increase the stiffness of the support member (8) and at the same time to provide a dampening action of the support member (8).
2. A support device according to claim 1, characterized in that the rubber material (12) is arranged in such a manner that it produces a dampening effect to said relative movements.
3. A support device according to any one of claims 1 and 2, characterized in that the wire is at least partly embedded in the rubber material (12).
4. A support device according to any one of claims 1-3, characterized in that the wire is substantially embedded in the rubber material (12).
5. A support device according to any one of the preceding claims, characterized in that the wire is manufactured in a spring material and that the spring material is fixedly connected to the rubber material (12).

6. A support device according to claim 5, characterized in that the spring material is fixedly connected to the rubber material (12) by a vulcanisation.
- 5 7. A support device according to any one of the preceding claims, characterized in that the longitudinal axis (s) of the support members (8) extends substantially radially with respect to the axis (x) of rotation.
- 10 8. A support device according to any one of the preceding claims, characterized by means (15) which are arranged to enable a pretensioning of the helical spring elements (10) in the direction of the respective longitudinal axis (s).
- 15 9. A support device according to any one of the preceding claims, characterized in that each support member (8) is provided in a space (9) which is delimited by a stop member (15).
- 20 10. A support device according to claim 9, characterized in that the stop member (15) is positionable in different positions along the longitudinal axis (s).